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Relevance scale

Comparison and evaluation of multiple objective genetic algorithms for the antenna placement problem



Larry Raisanen, Roger M. Whitaker

February 2005 Mobile Networks and Applications, Volume 10 Issue 1-2

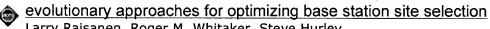
Publisher: Kluwer Academic Publishers

Full text available: pdf(226.43 KB) Additional Information: full citation, abstract, references, index terms

The antenna placement problem, or cell planning problem, involves locating and configuring infrastructure for cellular wireless networks. From candidate site locations, a set needs to be selected against objectives relating to issues such as financial cost and service provision. This is an NP-hard optimization problem and consequently heuristic approaches are necessary for large problem instances. In this study, we use a greedy algorithm to select and configure base station locations. The perfor ...

Keywords: antenna placement, genetic algorithms

2 Mobile computing and applications (MCA): A comparison of randomized and



Larry Raisanen, Roger M. Whitaker, Steve Hurley

March 2004 Proceedings of the 2004 ACM symposium on Applied computing

Publisher: ACM Press

Full text available: pdf(294.33 KB) Additional Information: full citation, abstract, references

It is increasingly important to optimally select base stations in the design of cellular networks, as customers demand cheaper and better wireless services. From a set of potential site locations, a subset needs to be selected which optimizes two critical objectives: service coverage and financial cost. As this is an NP-hard optimization problem, heuristic approaches are required for problems of practical size. Our approach consists of two phases which act upon a set of candidate site permutatio ...

Keywords: base station selection, cell planning, multiple objective optimization

3 Using Prediction for Performance Optimization and Estimation: Wire layer geometry



optimization using stochastic wire sampling Raymond A. Wildman, Joshua I. Kramer, Daniel S. Weile, Phillip Christie April 2002

Proceedings of the 2002 international workshop on System-level interconnect prediction

Publisher: ACM Press

Full text available: pdf(134.97 KB)

Additional Information: full citation, abstract, references, citings, index terms

The variation of in-plane interconnect geometry (pitch and width) as a function of wiring level results in improved system level performance because the properties of each wiring layer may be tailored to the characteristic lengths of the wires allocated to it. Performance metrics such as interconnect functional yield, and power dissipation are well suited to layer-by-layer optimization since they are determined by geometrical properties integrated across the wiring layer. The cycle time of a cir ...

Keywords: Rent's rule, genetic algorithms, interconnect, optimization

4 Real world applications: Optimizing parameters of a mobile ad hoc network protocol



with a genetic algorithm

David Montana, Jason Redi

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press

Full text available: pdf(408.51 KB) Additional Information: full citation, abstract, references, index terms

Mobile ad hoc networks are typically designed and evaluated in *generic* simulation environments. However the real conditions in which these networks are deployed can be quite different in terms of RF attentution, topology, and traffic load. Furthermore, specific situations often have a need for a network that is optimized along certain characteristics such as delay, energy or overhead. In response to the variety of conditions and requirements, ad hoc networking protocols are often designed ...

Keywords: ad hoc networks, genetic algorithms, mobile networks, parameter optimization

⁵ Ant colony optimization and swarm intelligence: Breeding swarms: a GA/PSO hybrid



۱

Matthew Settles, Terence Soule

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press

Full text available: pdf(277.11 KB) Additional Information: full citation, abstract, references, index terms

In this paper we propose a novel hybrid (GA/PSO) algorithm, Breeding Swarms, combining the strengths of particle swarm optimization with genetic algorithms. The hybrid algorithm combines the standard velocity and position update rules of PSOs with the ideas of selection, crossover and mutation from GAs. We propose a new crossover operator, Velocity Propelled Averaged Crossover (VPAC), incorporating the PSO velocity vector. The VPAC crossover operator actively disperses the population preventing ...

Keywords: breeding swarms, function minimization, genetic algorithms, particle swarm optimization

6 Evolutionary computing and optimization: Multi-objective optimization in area



coverage problems for cellular communication networks: evaluation of an elitist evolutionary strategy

Larry Raisanen, Roger M. Whitaker

March 2003 Proceedings of the 2003 ACM symposium on Applied computing

Publisher: ACM Press

Full text available: pdf(567.00 KB) Additional Information: full citation, abstract, references, index terms

Cellular wireless networks transmit signals from base stations, over an area commonly referred to a as a cell, to provide local area coverage to subscribers. As the power of transmission is restricted, multiple cells are required to provide wide area coverage. When operators set up or expand a network, multiple potential sites are normally available. A subset of these potential sites must be chosen to form the network subject to multiple, competing objectives. In this paper, we investigate the a ...

Keywords: cell planning, evolutionary algorithm, multi-objective problem

7 Guest editorial: algorithmic solutions for wireless, mobile, ad hoc and sensor networks

Amotz Bar-Noy, Alan A. Bertossi, Cristina M. Pinotti, Cauligi S. Raghavendra February 2005 Mobile Networks and Applications, Volume 10 Issue 1-2

Publisher: Kluwer Academic Publishers

Full text available: pdf(30.35 KB) Additional Information: full citation, index terms

8 Evolutionary computing and optimization: An agent based approach to site selection





for wireless networks

Steve Hurley, Roger M. Whitaker

March 2002 Proceedings of the 2002 ACM symposium on Applied computing

Publisher: ACM Press

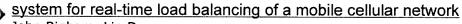
Full text available: pdf(308.66 KB)

Additional Information: full citation, abstract, references, citings, index terms

The location of transmission infrastructure for wireless communication networks is an important engineering problem involving competing objectives. A minimal selection of locations (or sites) are required subject to providing adequate area coverage for users. In this paper we present a general model for this problem, related to circle packing and set covering. We show that the pattern matching algorithm known as stochastic diffusion search can be applied to identify suitable solutions even for I ...

Keywords: site selection, stochastic diffusion search

9 Role and resource allocation in MAS: Cooperative negotiation in a multi-agent



John Bigham, Lin Du

July 2003 Proceedings of the second international joint conference on Autonomous agents and multiagent systems

Publisher: ACM Press

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> Full text available: pdf(1.27 MB) terms

A cooperative negotiation approach for the real-time control of cellular network coverage is described. The performance of the whole cellular network is improved by contracting and shaping the antenna radiation pattern around traffic "hot spots" and expanding adjacent cell coverage to fill in the coverage loss. The paper shows that the local area real time cooperative negotiation between base stations leads to a near global optimal coverage agreement which is reached in the context of the whole ...

Keywords: cooperative negotiation, load balancing, multi-agent systems, real-time systems

Manual and automatic design for UMTS networks

Sana Ben Jamaa, Zwi Altman, Jean-Marc Picard, Benoît Fourestié, Julien Mourlon

December 2004 Mobile Networks and Applications, Volume 9 Issue 6

Publisher: Kluwer Academic Publishers

Full text available: pdf(755.38 KB) Additional Information: full citation, abstract, references, index terms

This paper describes manual and automatic design strategies of UMTS networks. The design aims at adjusting antenna parameters: antenna pattern, tilt and azimuth angles, as well as the common channels' transmitted power to improve the network performance in terms of coverage, capacity, quality of service and service continuity. The manual design strategy is based on an expert system that analyzes different quality criteria of the network and suggests the designer the most effective parameter m ...

Keywords: UMTS network, design strategies, genetic Algorithm

11 Artificial life, evolutionary robotics, and adaptive behavior: Automated assembly as

situated development: using artificial ontogenies to evolve buildable 3-D objects

John Rieffel, Jordan Pollack

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press

Full text available: pdf(325.43 KB) Additional Information: full citation, abstract, references, index terms

Artificial Ontogenies, which are inspired by biological development, have been used to automatically generate a wide array of novel objects, some of which have recently been manufactured in the real world. The majority of these evolved designs have been evaluated in simulation as completed objects, with no attention paid to how, or even if, they can be realistically built. As a consequence, significant human effort is required to transfer the designs to the real world. One way to reduce human in ...

Keywords: artificial ontogeny, assembly, evolutionary design, fabrication

12 MAC layer and interference: On lower bounds for MAC layer contention in CSMA/CA-

based wireless networks

Frank A. Zdarsky, Ivan Martinovic, Jens B. Schmitt

September 2005 Proceedings of the 2005 joint workshop on Foundations of mobile computing DIALM-POMC '05

Publisher: ACM Press

Full text available: pdf(627.50 KB) Additional Information: full citation, abstract, references, index terms

Wireless LANs operating within unlicensed frequency bands require random access schemes such as CSMA/CA, so that wireless networks from different administrative domains (for example wireless community networks) may co-exist without central coordination, even when they happen to operate on the same radio channel. Yet, it is evident that this lack of coordination leads to an inevitable loss in efficiency due to contention on the MAC layer. The interesting question is, which efficiency may be gaine ...

Keywords: CSMA/CA, community networks, contention, lower bound, wireless LANs



13 <u>Guest editor's introduction: MONET special issue on optimization of wireless and mobile networks</u>

Sven Östring, Konstantin Avrachenkov, Jon Crowcroft, Anthony Ephremides December 2004 **Mobile Networks and Applications**, Volume 9 Issue 6

Publisher: Kluwer Academic Publishers

Full text available: pdf(67.15 KB) Additional Information: full citation, index terms

14 Real world applications: Automated re-invention of six patented optical lens systems



using genetic programming

John R. Koza, Sameer H. Al-Sakran, Lee W. Jones

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press

Full text available: pdf(324.35 KB) Additional Information: full citation, abstract, references, index terms

This paper describes how genetic programming was used as an invention machine to automatically synthesize complete designs for six optical lens systems that duplicated the functionality of previously patented lens systems. The automatic synthesis was done "from scratch"-that is, without starting from a pre-existing good design and without prespecifying the number of lenses, the physical layout of the lenses, the numerical parameters of the lenses. ...

Keywords: automated design, genetic programming, human-competitive results, invention machine, optical lens system, patents

¹⁵ A selective location update strategy for PCS users

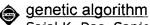
Sanjoy K. Sen, Amiya Bhattacharya, Sajal K. Das October 1999 **Wireless Networks**, Volume 5 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: pdf(219.12 KB) Additional Information: full citation, references, citings, index terms

16 A new location update strategy for cellular networks and its implementation using a





Sajal K. Das, Sanjoy K. Sen

September 1997 Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking

Publisher: ACM Press

Full text available: pdf(1.60 MB) Additional Information: full citation, references, citings, index terms

17 Design of an efficient channel block retuning

Vincent Barbéra, Brigitte Jaumard

November 2001 Mobile Networks and Applications, Volume 6 Issue 6

Publisher: Kluwer Academic Publishers

Full text available: pdf(180.25 KB) Additional Information: full citation, abstract, references, index terms

Cellular networks must be updated very often. Due to technical and economical reasons, the complete channel retuning of an urban network has to be done in several steps. The objective is then to define the steps in such a way that the increase in the interference level is minimum, and do not let it go further than a given threshold of minimum quality

for the cellular network. We propose a greedy heuristic and an ascent---descent method including a Tabu Search module to retune a network in a give ...

Keywords: ascent---descent heuristic, cellular telephone system, frequency assignment, greedy heuristic, retuning, tabu search

18 Real world applications: An artificial immune system algorithm for CDMA multiuser



detection over multi-path channels

Maoguo Gong, Ling Wang, Licheng Jiao, Haifeng Du

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press

Full text available: pdf(328.28 KB) Additional Information: full citation, abstract, references, index terms

Based on the Antibody Clonal Selection Theory of immunology, we put forward a novel clonal selection algorithm for multiuser detection in Code-division Multiple-access Systems. By using the clonal selection operator, the new algorithm can carry out the global search and the local search in many directions rather than one direction around the same individual simultaneously. After discussing the main characters of the new algorithm, especially the convergence and complexity, the performance of the ...

Keywords: artificial immune systems, clonal selection, code-division multiple-access systems, genetic algorithm, multiuser detection

19 Technical papers: A generic library of problem solving methods for scheduling applications





Dnyanesh Rajpathak, Enrico Motta, Zdenek Zdrahal, Rajkumar Roy October 2003 Proceedings of the international conference on Knowledge capture

Publisher: ACM Press

Full text available: pdf(351.64 KB) Additional Information: full citation, abstract, references, index terms

In this paper we describe a generic library of problem-solving methods (PSMs) for scheduling applications. Although, some attempts have been made in the past at developing libraries of scheduling methods, these only provide limited coverage: in some cases they are specific to a particular scheduling domain; in other cases they simply implement a particular scheduling technique; in other cases they fail to provide the required degree of depth and precision. Our library is based on a structured ap ...

Keywords: knowledge acquisition, knowledge reuse, ontologies, problem-solving methods, scheduling

20 Distributing collective adaptation via message passing



Thomas Haynes
February 1999 Proceedings of the 1999 ACM symposium on Applied computing

Publisher: ACM Press

Full text available: pdf(546.12 KB) Additional Information: full citation, references, citings, index terms

Keywords: collective adaptation, distributed PC clusters, genetic programmed, linux, message passing interface

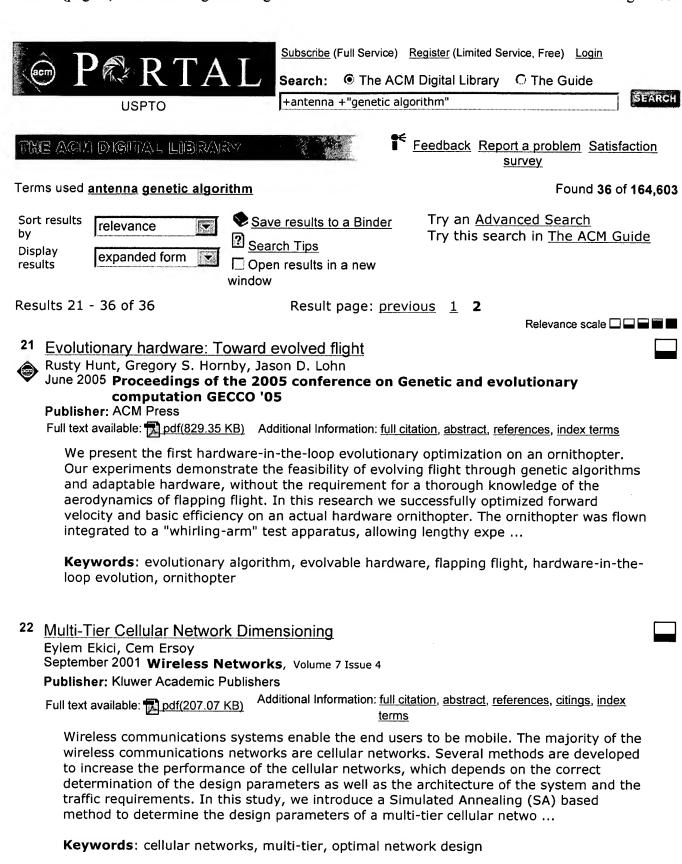
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January 2003 ACM SIGCOMM Computer Communication Review, Volume 33 Issue 1

23 Lowering the barrier to wireless and mobile experimentation

Brian White, Jay Lepreau, Shashi Guruprasad

Pu	ıb	lis	sh	er:	A	CM	Pres	SS
							_	

Full text available: pdf(204.03 KB) Additional Information: full citation, abstract, references, index terms

The success of ns highlights the importance of an infrastructure that enables efficient experimentation. Similarly, Netbed's automatic configuration and control of emulated and live network environments minimizes the effort spent configuring and running experiments. Learning from the evolution of these systems, in this paper we argue that a live wireless and mobile experimental facility focusing on ease of use and accessibility will not only greatly lower the barrier to research in these ...

24 Track 6: autonomic and organic computing: First steps towards organic computing





systems: monitoring an adaptive protocol stack with a fuzzy classifier system

Thorsten Schöler, Christian Müller-Schloer

May 2005 Proceedings of the 2nd conference on Computing frontiers

Publisher: ACM Press

Full text available: pdf(768.32 KB) Additional Information: full citation, abstract, references, index terms

Protocol stacks for small devices like mobile phones have to fulfill multiple functions in different environments. This has lead to highly complex solutions with alternative stacks. It is more economical to construct new stacks from building blocks on the fly depending on the current requirements. Such an adaptive architecture is an example of an organic computing system. In this paper we show how a proposed monitoring architecture for adaptive protocol stacks fits into the observer/controller p ...

Keywords: agents, fuzzy learning classifier system, monitoring, observer/controller, organic computing, protocol stack

²⁵ A decade of reconfigurable computing: a visionary retrospective



R. Hartenstein

March 2001 Proceedings of the conference on Design, automation and test in Europe

Publisher: IEEE Press

Full text available: pdf(768.00 KB) Additional Information: full citation, references, citings, index terms

26 Artificial life, evolutionary robotics, and adaptive behavior: Evolutionary form-finding





of tensegrity structures

Chandana Paul, Hod Lipson, Francisco J. Valero Cuevas

June 2005 Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05

Publisher: ACM Press

Full text available: pdf(900.05 KB) Additional Information: full citation, abstract, references, index terms

Tensegrity structures are stable 3-dimensional mechanical structures which maintain their form due to an intricate balance of forces between disjoint rigid elements and continuous tensile elements. Tensegrity structures can give rise to lightweight structures with high strength-to-weight ratios and their utility has been appreciated in architecture, engineering and recently robotics. However, the determination of connectivity patterns of the rigid and tensile elements which lead to stable tenseg ...

Keywords: evolutionary algorithms, evolutionary robotics, tensegrity structures

²⁷ Clustering 1: Distributed low-cost backbone formation for wireless ad hoc networks Yu Wang, WeiZhao Wang, Xiang-Yang Li



May 2005 Proceedings of the 6th ACM international symposium on Mobile ad hoc networking and computing MobiHoc '05

Publisher: ACM Press

Full text available: pdf(370.32 KB) Additional Information: full citation, abstract, references, index terms

Backbone has been used extensively in various aspects (e.g., routing, route maintenance, broadcast, scheduling) for wireless networks. Previous methods are mostly designed to minimize the backbone size. However, in many applications, it is desirable to construct a backbone with small cost when each wireless node has a cost of being in the backbone. In this paper, we first show that previous methods specifically designed to minimize the backbone size may produce a backbone with a la ...

Keywords: clustering, connected dominating set, localized algorithm, weighted, wireless ad hoc/sensor networks

28 Exposure in wireless sensor networks: theory and practical solutions

Seapahn Megerian, Farinaz Koushanfar, Gang Qu, Giacomino Veltri, Miodrag Potkonjak September 2002 Wireless Networks, Volume 8 Issue 5

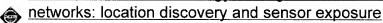
Publisher: Kluwer Academic Publishers

Full text available: pdf(294.60 KB) Additional Information: full citation, abstract, references, index terms

Wireless ad hoc sensor networks have the potential to provide the missing interface between the physical world and the Internet, thus impacting a large number of users. This connection will enable computational treatments of the physical world in ways never before possible. In this far reaching scenario, Quality of Service can be expressed in terms of accuracy and/or latency of observing events and the overall state of the physical world. Consequently, one of the fundamental problems in sensor n ...

Keywords: coverage, exposure, network, sensor, wireless

29 Sensor networks and energy management: Localized algorithms in wireless ad-hoc



Seapahn Meguerdichian, Sasa Slijepcevic, Vahag Karayan, Miodrag Potkonjak October 2001 Proceedings of the 2nd ACM international symposium on Mobile ad hoc networking & computing

Publisher: ACM Press

Full text available: pdf(229.71 KB)

Additional Information: full citation, abstract, references, citings, index

The development of practical, localization algorithms is probably the most needed and most challenging task in wireless ad-hoc sensor networks (WASNs). Localized algorithms are a special type of distributed algorithms where only a subset of nodes in the WASN participate in sensing, communication, and computation. We have developed a generic localized algorithm for solving optimization problems in wireless ad-hoc networks that has five components: (i) data acquisition mechanism, (ii ...

30 Exposure in wireless Ad-Hoc sensor networks

Seapahn Meguerdichian, Farinaz Koushanfar, Gang Qu, Miodrag Potkonjak July 2001 Proceedings of the 7th annual international conference on Mobile computing and networking

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(476.79 KB) terms

Wireless ad-hoc sensor networks will provide one of the missing connections between the Internet and the physical world. One of the fundamental problems in sensor networks is

the calculation of coverage. Exposure is directly related to coverage in that it is a measure of how well an object, moving on an arbitrary path, can be observed by the sensor network over a period of time.

In addition to the informal definition, we formally define exposure and study its properties. We have devel ...

31 FPGA-based sonar processing

Paul Graham, Brent Nelson

March 1998 Proceedings of the 1998 ACM/SIGDA sixth international symposium on Field programmable gate arrays

Publisher: ACM Press

Full text available: pdf(1.21 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

terms

This paper presents the application of time-delay sonar beamforming and discusses a multi-board FPGA system for performing several variations of this beamforming method in real-time for realistic sonar arrays. Additionally, we show that our proposed FPGA system has a six to twelve times performance advantage over an equivalent system created using currently available, high-performance DSPs designed for multiprocessing systems. This performance advantage is due to the simplicity of the core ...

32 Special session: emerging directions in wireless: Cognitive radio techniques for wide



area networks

William Krenik, Anuj Batra

June 2005 Proceedings of the 42nd annual conference on Design automation

Publisher: ACM Press

Full text available: 📆 pdf(265.46 KB) Additional Information: full citation, abstract, references, index terms

The cellular wireless market has begun the transition to data centric services including high speed internet access, video, high quality audio, and gaming. Communications technology can meet the need for very high data link speeds, and can also improve network throughput, but dramatically more spectrum will be needed to provide ubiquitous wireless data service. Cognitive radio is a new technology that allows spectrum to be dynamically shared between users. It offers the potential to dramatically ...

Keywords: cognitive radios, unlicensed spectrum, unlicensed wide area network

33 Biologically inspired approaches to robotics: what can we learn from insects? Randall D. Beer, Roger D. Quinn, Hillel J. Chiel, Roy E. Ritzmann



March 1997 Communications of the ACM, Volume 40 Issue 3 Publisher: ACM Press

Full text available: pdf(1.18 MB)

Additional Information: full citation, references, citings, index terms,

review

34 ASIC design in nanometer era - dead or alive?: Architecting ASIC libraries and flows



in nanometer era

Clive Bittlestone, Anthony Hill, Vipul Singhal, Arvind N.V.

June 2003 Proceedings of the 40th conference on Design automation

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(328.92 KB) terms

This paper is in response to the question 'ASIC Design the nm era - dead or alive' from an ASIC library architecture and library flow point of view. The authors believe it is certainly significantly harder to design in the nm era but ASIC design is not dead. ASIC Design is much more challenging in the nanometer era. This paper will present some of the main effects that have become significant in terms of library architecture and library creation flow. Some full chip level effects will be discuss ...

Keywords: libraries, nanometer design, standard cell

35 What have we learnt from using real parallel machines to solve real problems?



January 1989 Proceedings of the third conference on Hypercube concurrent computers and applications - Volume 2

Publisher: ACM Press

Full text available: pdf(4.08 MB)

Additional Information: full citation, abstract, references, citings, index

terms.

We briefly review some key scientific and parallel processing issues in a selection of some 84 existing applications of parallel machines. We include the MIMD hypercube transputer array, BBN Butterfly, and the SIMD ICL DAP, Goodyear MPP and Connection Machine from Thinking Machines. We use a space-time analogy to classify problems and show how a division into synchronous, loosely synchronous and asynchronous problems is helpful. This classifies problems into those suitable for SIMD or MIMD ...

36 Computer applications in health care (CAHC): An interactive evolutionary algorithm





for cochlear implant fitting: first results C. Bourgeois-République, G. Valigiani, P. Collet

March 2005 Proceedings of the 2005 ACM symposium on Applied computing

Publisher: ACM Press

Full text available: 📆 pdf(131.79 KB) Additional Information: full citation, abstract, references, index terms

In a previous SAC-COMPAHEC paper[1], a method was presented using an interactive evolutionary algorithm for cochlear implants fitting. The method has recently been put to test, with very unexpected and encouraging results: in a few words, it seems that the algorithm is capable to obtain much better results than an expert practitioner in many cases. The solutions proposed by the algorithm are counter-intuitive, yet they improve speech recognition drastically. If these preliminary results are confir ...

Keywords: cochlear implants, interactive evolutionary optimization

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1 ASIC design in nanometer era - dead or alive?: Architecting ASIC libraries and flows



in nanometer era

Clive Bittlestone, Anthony Hill, Vipul Singhal, Arvind N.V.

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June 2003 Proceedings of the 40th conference on Design automation

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This paper is in response to the question 'ASIC Design the nm era - dead or alive' from an ASIC library architecture and library flow point of view. The authors believe it is certainly significantly harder to design in the nm era but ASIC design is not dead. ASIC Design is much more challenging in the nanometer era. This paper will present some of the main

flow. Some full chip level effects will be discuss ...

Keywords: libraries, nanometer design, standard cell

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effects that have become significant in terms of library architecture and library creation

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